

ABSTRACT OF THE DISCLOSURE

The present invention discloses a reamer (20) and a method for reaming, for enlarging a pre-existing hole in a workpiece by rotational and axial cutting. The reamer (20) includes a body (24) extending from a shank (22). The body (24) has a first flute (30) providing a first flute cutting edge (32) at a distal end (34) of the body (24) for imparting a first cutting operation to the workpiece. The body (24) has a helical flute (42) providing a helical flute cutting edge (46) in the body distal end (34), radially spaced apart from the first flute cutting edge (32) for imparting a helical cutting operation to the workpiece. The first flute and helical flute cutting edges (32, 46) concurrently and collectively perform the first and helical cutting operations to a sculpture surface of the workpiece, thereby improving tolerances of the cutting operations, varying loads imparted to the workpiece and the reamer (20), and reducing heat generated therebetween.